

LaJuana S. Wilcher
Secretary

AIR QUALITY PERMIT

Issued under 401 KAR 52:040
State-origin Permits

Ernie Fletcher
Governor



Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

Permittee Name: Owensboro Brick and Tile Company.
Mailing Address: P.O.Box 907
Owensboro, KY 42307

is authorized to construct /operate bricks and tile processing units.

Source Name: Owensboro Brick and Tile Company.
Mailing Address: P.O.Box 907, Owensboro, KY 42167
Source Location: 1203 Ewing Road, Owensboro, KY 42302.

Source ID #: 21-059-00025
Source AI #: 37847
Activity #: APE20050002

SIC Code: 3251
County: Daviess

Permit Number: S-05-104

Permit Type: Operating/Construction

Regional Office: Owensboro Region
3032 Alvey Park Dr.W
Owensboro, KY 42303-2191
(270) 687-7204.

Issuance Date: April 28, 2005
Expiration Date: April 28, 2015

John S. Lyons, Director
Division for Air Quality

State-Origin Construction/Operating

Owensboro Brick & Tile

Subject Item Inventory

Activity ID No.: APE20050002

Subject Item Inventory:

ID	Designation	Description
AIOO37847		
AREA1	Emission Unit 28	Haul Roads Existing
COMB2	Emission Unit 25	Tunnel Kiln #1 SCC Units :Tons SCC Codes :30500311 Constructin :1992 and pending (New)
COMB4	Emission Unit 27	Tunnel Kiln # 2 SCC Units :Tons SCC Codes :30500311 (Existing)
COMB5	Emission Unit 24	Predryer (Waste heat from kiln) SCC Code:30500350 SCC Unit :Ton (New)
COMB6	Emission Unit 26	Existing Predryer (Waste heat from kiln) SCC Code:30500350 SCC Unit :Ton
EQPT2	Emission Unit 01	Truck Unloading (Receiving) SCC code :30500317 SCC Unit : Tons (Existing)
EQPT3	Emission Unit 02	Clay Stockpiles SCC Code :30500303 SCC Unit : Tons (Existing)
EQPT4	Emission Unit 03	Apron Feeder SCC Code :30500305 SCC Unit :Tons (New)

State-Origin Construction/Operating

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ID	Designation	Description
EQPT5	Emission Unit 04	Conveyor (Feeder to scalping screen) SCC Code :30500319 SCC Unit : Tons (New)
EQPT6	Emission Unit 05	Scalping Screens SCC Code :30500308 SCC Unit :Tons (New)
EQPT7	Emission Unit 06	Hammer Mill SCC Code :30500306 SCC Unit : Tons (New)
EQPT8	Emission Unit 07	Conveyor to Hammer Mill (2) SCC Code :30500319 SCC Unit : Tons (New)
EQPT9	Emission Unit 08	Conveyor from Hammer Mill (2) SCC Code :30500319 SCC Unit : Tons (New)
EQPT10	Emission Unit 09	Conveyorfrom C2 to Screens (S1,S2,S3)C3 (3) SCC Code :30500319 SCC Unit : Tons (New)
EQPT11	Emission Unit 10	Heated Vibratory Screen (S1) (Electric) SCC Code :30500301 SCC Unit : Tons (New)
EQPT12	Emission Unit 11	Heated Vibratory Screen (S2) (Electric) SCC Code :30500301 SCC Unit : Tons (New)

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ID	Designation	Description
EQPT13	Emission Unit 12	Heated Vibratory Screen (S3) (Electric) SCC Code :30500301 SCC Unit : Tons (New)
EQPT14	Emission Unit 13	Conveyor (C4) from Screens to C5 (3) SCC Code :30500319 SCC Unit : Tons (New)
EQPT15	Emission Unit 14	Conveyor (C4) to Storage Silos (2) SCC Code :30500319 SCC Unit : Tons (New)
EQPT16	Emission Unit 15	Conveyor (C6) Screen to C7 (2) SCC Code :30500319 SCC Unit : Tons (New)
EQPT17	Emission Unit 16	Conveyor (C7) to Hammermill (2) SCC Code :30500319 SCC Unit : Tons (New)
EQPT18	Emission Unit 19	Conveyor from storage silo to pugmill (2) SCC Code:30500319 SCC Unit:Tons (New)
EQPT19	Emission Unit 20	Pugmill SCC Code :30500309 SCC Unit : Tons (Existing)
EQPT20	Emission Unit 21	Extruder SCC Code :30500342 SCC Unit : Tons (Existing)

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ID	Designation	Description
EQPT21	Emission Unit 22	Pugmill SCC Code :30500309 SCC Unit : Tons (New)
EQPT22	Emission Unit 23	Extruder SCC Code :30500342 SCC Unit : Tons (New)
STOR8	Emission Unit 17	100 Ton Storage Silo SCC Code:30500303 SCC Unit : Tons (New)
STOR9	Emission Unit 18	100 Ton Storage Silo SCC Code:30500303 SCC Unit : Tons (New)

Subject Item Groups:

ID	Description	Components
GACT1	(Emission Units : 01 - 24 & 26,28)	COMB5 Predryer (Waste heat from kiln) SCC Code:30500350 SCC Unit :Ton (New)
		COMB6 Existing Predryer (Waste heat from kiln) SCC Code:30500350 SCC Unit :Ton
		EQPT2 Truck Unloading (Receiving) SCC code :30500317 SCC Unit : Tons (Existing)
		EQPT3 Clay Stockpiles SCC Code :30500303 SCC Unit : Tons (Existing)

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ID	Description	Components
GACT1	(Emission Units : 01 - 24 & 26,28)	EQPT4 Apron Feeder SCC Code :30500305 SCC Unit :Tons (New)
		EQPT5 Conveyor (Feeder to scalping screen) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT6 Scalping Screens SCC Code :30500308 SCC Unit :Tons (New)
		EQPT7 Hammer Mill SCC Code :30500306 SCC Unit : Tons (New)
		EQPT8 Conveyor to Hammer Mill (2) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT9 Conveyor from Hammer Mill (2) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT10 Conveyorfrom C2 to Screens (S1,S2,S3)C3 (3) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT11 Heated Vibratory Screen (S1) (Electric) SCC Code :30500301 SCC Unit : Tons (New)
		EQPT12 Heated Vibratory Screen (S2) (Electric) SCC Code :30500301 SCC Unit : Tons (New)

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Subject Item Inventory

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ID	Description	Components
GACT1	(Emission Units : 01 - 24 & 26,28)	EQPT13 Heated Vibratory Screen (S3) (Electric) SCC Code :30500301 SCC Unit : Tons (New)
		EQPT14 Conveyor (C4) from Screens to C5 (3) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT15 Conveyor (C4) to Storage Silos (2) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT16 Conveyor (C6) Screen to C7 (2) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT17 Conveyor (C7) to Hammermill (2) SCC Code :30500319 SCC Unit : Tons (New)
		EQPT18 Conveyor from storage silo to pugmill (2) SCC Code:30500319 SCC Unit:Tons (New)
		EQPT19 Pugmill SCC Code :30500309 SCC Unit : Tons (Existing)
		EQPT20 Extruder SCC Code :30500342 SCC Unit : Tons (Existing)
		EQPT21 Pugmill SCC Code :30500309 SCC Unit : Tons (New)

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ID	Description	Components
GACT1	(Emission Units : 01 - 24 & 26,28)	EQPT22 Extruder SCC Code :30500342 SCC Unit : Tons (New)
		STOR8 100 Ton Storage Silo SCC Code:30500303 SCC Unit : Tons (New)
		STOR9 100 Ton Storage Silo SCC Code:30500303 SCC Unit : Tons (New)
		AREA1 Haul Roads Existing

KEY

ACTV = Activity

AREA = Area

EQPT = Equipment

PERS = Personnel

STOR = Storage

TRMT = Treatment

AIOO = Agency Interest

COMB = Combustion

MNPT = Monitoring Point

PORT = Transport

STRC = Structure

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Owensboro Brick & Tile

Facility Requirements

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Submittal/Action Requirements:

Condition No.	Condition
S-1	<p>SEMIANNUAL REPORTS:</p> <p>The permittee shall submit report(s): Due semiannually, by the 30th of January and July to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. This report shall be a summary of any monitoring required by this permit, other than continuous emission or opacity monitors. For emission units that had not yet begun construction, were still under construction, or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation. All reports shall be certified by a responsible official. All deviations from permit requirements shall be clearly identified in the reports. [401 KAR 52:040 Section 21]</p>
S-2	<p>COMPLIANCE CERTIFICATION:</p> <p>The permittee shall certify compliance with the terms and conditions contained in this permit and shall submit compliance certification: Due annually, by the 30th of January to the Regional Office listed on the front of this permit. Compliance Certification Form (DEP 7007CC) (or an approved alternative) shall be used in accordance with the following requirements:</p> <ol style="list-style-type: none">Identification of the term or condition;Compliance status of each term or condition of the permit;Whether compliance was continuous or intermittent;The method used for determining the compliance status for the source, currently and over the reporting period, andFor emission units that had not yet begun construction, were still under construction, or which had not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is not in operation and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the Regional Office listed on the front of this permit and the following address: <p>Division for Air Quality Central Files 803 Schenkel Lane Frankfort, KY 40601. [401 KAR 52:040 Section 19]</p>

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Submittal/Action Requirements:

Condition No.	Condition
S-3	<p>NOTIFICATION:</p> <p>The following information shall be reported:</p> <ol style="list-style-type: none">Date when construction commenced, (See Requirement H1.).Start-up date of each of the affected facilities listed on this permit.Date when maximum production rate was achieved, (See Requirement H2.). The permittee shall submit information: Due within 30 days after construction commencement or within 15 days following start-up and attainment of maximum production rate, or within 15 days following the issuance date of this permit, whichever is later, to the Regional Office listed on the front of this permit, with a copy to the Division's Frankfort Central Office. [401 KAR 59:005 Section 3(1)]
S-4	<p>PERFORMANCE TESTS: This permit shall allow time for the initial start-up, operation and (performance testing and/or compliance demonstration) of the affected facilities listed herein. However, within 60 days after achieving the maximum production rate at which the affected facilities will be operated, but not later than 180 days after initial start-up of such facilities, the owner or operator shall or demonstrate compliance to a duly authorized representative of the Division. [401 KAR 59:005 Section 2(1)] The permittee shall complete and submit Compliance Test Protocol (Form DEP 6027): Due at least 30 days prior to performance/emissions test to the Regional Office listed on the front of this permit. [Policy Manual of the Division of Air Quality, Section VII 2.(1)][401 KAR 50:016 Section 1(1)] The protocol form shall be utilized by the Division to determine if a pretest meeting is required. The Division shall be notified of the actual test date at least 10 working days prior to the test(s). [401 KAR 50:045 Section 5]</p>
S-5	<p>PERFORMANCE TEST NOTICE AND REPORT:</p> <p>Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), at least one month prior to the date of any required performance test(s), the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.</p> <p>For any performance test(s) required by this permit, the permittee shall submit performance/emission test results: Due within 45 days of the completion of the fieldwork to the Division. [Policy Manual of the Division for Air Quality, Section VII.3] [401 KAR 50:016 Section 1(1)]</p>

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Submittal/Action Requirements:

Condition No.	Condition
S-6	<p>PERMIT EXPIRATION AND REAPPLICATION REQUIREMENTS:</p> <p>This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division. The permittee shall submit permit application for renewal: Due 180 calendar days before permit expiration date to the Division. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040 Section 15]</p>

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-1	<p>Additional Limitations: Gaseous hydrogen fluorides emissions from the brick processing are below the primary ambient air quality standards established in 401 KAR 53:010 - Ambient Air Quality Sandards,based on Screen 3 modeling submitted by the permittee on March 15,2005.However,at no time shall the permittee cause a violation of the gaseous fluorides standard contained in 401 KAR 53:010. [401 KAR 53:010]</p>

Condition No.	Condition
T-2	<p>SECTION A. PERMIT AUTHORIZATION. [401 KAR 52:040]</p>

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Narrative Requirements:

Condition No.	Condition
T-3	<p>A1. Pursuant to a duly submitted application, the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.</p> <p>The permittee shall not construct, reconstruct, or modify an affected facility without first having submitted a complete application and received a permit for the planned activity from the Division, except as provided in this permit or in 401 KAR 52:040, State-origin permits.</p> <p>Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies. [401 KAR 52:040]</p>
T-4	<p>A2. The Division for Air Quality has determined that this facility's potential to emit any air pollutant is less than 100 tons per year. Therefore, although the permit is conditioned to allow emissions in excess of 100 tons per year pursuant to federally enforceable Regulation KAR 59:010, New process operations, emissions equal to or in excess of 100 tons per year of any pollutant are not possible. Accordingly, this permit is being issued as a minor source state-origin permit. [401 KAR 52:040]. [401 KAR 52:040]</p>
T-5	<p>SECTION B. ADMINISTRATIVE REQUIREMENTS. [401 KAR 52:040]</p>
T-6	<p>B1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit. [401 KAR 52:040 Section 3(1)(b)]</p>
T-7	<p>B2. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a (11)]. [401 KAR 52:040 Section 23]</p>
T-8	<p>B3. This permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a (4) and (5)]. [401 KAR 52:040 Section 23]</p>
T-9	<p>B4. This permit does not convey property rights or exclusive privileges. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a, 8]. [401 KAR 52:040 Section 23]</p>
T-10	<p>B5. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:040 Section 11(3)]</p>
T-11	<p>B7. All previously issued construction and operating permits are hereby null and void. [401 KAR 52:040]</p>

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Narrative Requirements:

Condition No.	Condition
T-12	SECTION C. RECORD KEEPING REQUIREMENTS. [401 KAR 52:040]
T-13	C1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Sections 1b (IV)(2) and 1a (7)]. [401 KAR 52:040 Section 23]
T-14	C2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official. [401 KAR 52:040 Section 21]
T-15	SECTION D. REPORTING REQUIREMENTS. [401 KAR 52:040]
T-16	D2. The permittee shall furnish information requested by the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the permit. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a, 6]. [401 KAR 52:040 Section 23]
T-17	SECTION E. INSPECTIONS. [401 KAR 52:040]
T-18	E1. The permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times: a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation; b. To access and copy any records required by the permit; c. Inspect any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. d. Sample or monitor substances or parameters to assure compliance with the permit or any applicable requirements. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency. [401 KAR 52:040 Section 3(1)(f)]
T-19	SECTION F. EMERGENCIES/ENFORCEMENT PROVISIONS. [401 KAR 52:040]
T-20	F1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a, 3]. [401 KAR 52:040 Section 23]

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Narrative Requirements:

Condition No.	Condition
T-21	<p>F2. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:</p> <ol style="list-style-type: none">An emergency occurred and the permittee can identify the cause of the emergency;The permitted facility was at the time being properly operated;During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; andThe permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken. <p>These provisions are in addition to any emergency or upset provision contained in an applicable requirement. [401 KAR 52:040 Section 22(1)]</p>
T-22	<p>F3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:040 Section 22(2)]</p>
T-23	<p>SECTION G. COMPLIANCE. [401 KAR 52:040]</p>
T-24	<p>G1. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:</p> <ol style="list-style-type: none">Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1.All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and non routine maintenance performed on each control device.A log of the monthly raw material consumption and/or monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program, spread sheets, calculations or performance tests as may be specified by the Division. [401 KAR 50:055 Section 2]
T-25	<p>G2. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all:</p> <ol style="list-style-type: none">Applicable requirements that are included and specifically identified in this permit; orNon-applicable requirements expressly identified in this permit. [401 KAR 52:040 Section 11]
T-26	<p>SECTION H. CONSTRUCTION REQUIREMENTS. [401 KAR 52:040]</p>

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Narrative Requirements:

Condition No.	Condition
T-27	H1. Unless construction is commenced on or before 18 months after the date of issue of this permit, or if construction is commenced and then stopped for any consecutive period of 18 months or more, or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon a written request, the cabinet may extend these time periods if the source shows good cause. [401 KAR 52:040 Section 12(3)]
T-28	H2. Unless notification and justification to the contrary are received by this Division, the date of achieving the maximum production rate at which the affected facilities will be operated shall be deemed to be 30 days after initial start-up. [401 KAR 59:005 Section 3(1)(b)]
T-29	H3. Operation of the affected facilities authorized by this permit shall not commence until compliance with applicable standards specified herein has been demonstrated in accordance with the requirements of 401 KAR 52:040, Section 12(4)(a) and (b). Until compliance is demonstrated, the source may only operate for the purpose of demonstrating compliance. [401 KAR 52:040 Section 12(4)(b)]
T-30	H4. If a demonstration of compliance, through performance testing was made at a production rate less than the maximum specified in the application form, then the permittee is only authorized to operate at a rate that is not greater than 110 percent of the rate demonstrated during performance testing. If and when the facility is capable of operation at the rate specified in the application, compliance must be demonstrated at the new production rate if required by the Division [Policy Manual of the Division for Air Quality, Section VII 1.(2 and 3)]. [401 KAR 50:016 Section 1(1)]

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COMB2 (Emission Unit 25) Tunnel Kiln #1

SCC Units :Tons

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	PT (Particulate Matter)	<p>Each unit shall have a maximum emissions of PT (Particulate Matter) ≤ 7.46 lbs/hr. If the process weight rate for the unit is 1,000 lbs/hr or less, the limit on emissions of particulate matter is 2.34 lb/hr. If the process weight rate for the unit is above 1,000 lbs/hr, the limit on emissions of particulate matter from the unit can be determined (in lbs/hr) by taking the process weight rate for materials introduced into the unit (in tons/hr), raising the process weight rate value to the 0.62 power, and multiplying by 3.59 (maximum = $3.59 \times \text{process weight rate}^{0.62}$).</p> <p>Compliance Demonstration</p> <p>Compliance will be demonstrated from the following emission calculation basis and monitoring requirements: PT emission in pounds per hour= (monthly processing rate in tons/month)(1 month/hours of operation that month)(emission factor of 1 lb PT/ton).</p> <p>See Monitoring Requirements for monitoring rates and visual inspection of controls. [401 KAR 59:010 Section 3(2)] Statistical basis: Three-hour average.</p>
L-2	Visible Emissions	Each unit shall have Visible Emissions < 20 % opacity. [401 KAR 59:010 Section 3(1)] Statistical basis: Six-minute average.

Narrative Requirements:

Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: New process operations is applicable to each affected facility associated with a process operation commenced after July 2, 1975 and limits particulate emissions. [401 KAR 59:010]
T-2	Applicable Regulations: Potentially hazardous matter or toxic substances. [401 KAR 63:020]

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Narrative Requirements:

Compliance Demonstration:

Condition No.	Condition
T-3	<p>Compliance Demonstration:</p> <p>For HAPs</p> <p>Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration , in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and / or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020 Section 3]</p>

Recordkeeping:

Condition No.	Condition
T-4	<p>Recordkeeping: The permittee shall maintain records of the following: 1) monthly hours of operation and material processing rate; 2) the weekly log of qualitative visual observation of opacity of emissions and the opacity determined by Reference Method 9, if any were taken, and repairs that were made due to any opacity reading which exceeded the standard. [401 KAR 52:040 Section 10]</p>

Monitoring:

Condition No.	Condition
T-5	<p>Monitoring: The permittee shall monitor the amount of material processed on a monthly basis. [401 KAR 52:040 Section 10]</p>
T-6	<p>Monitoring: The permittee shall monitor the hours of operation of the unit on a monthly basis. [401 KAR 52:040 Section 10]</p>
T-7	<p>Monitoring: The permittee shall perform a qualitative visible observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observation. If visible emission from a stack are seen, then the opacity shall be determined by EPA Reference Method 9 and an inspection shall be initiated for any necessary repairs. [401 KAR 52:040 Section 10]</p>

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COMB4 (Emission Unit 27) Tunnel Kiln # 2

SCC Units :Tons

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	PT (Particulate Matter)	<p>Each unit shall have a maximum emissions of PT (Particulate Matter) ≤ 8.0 lbs/hr. If the process weight rate for the unit is 1,000 lbs/hr or less, the limit on emissions of particulate matter is 2.34 lb/hr. If the process weight rate for the unit is above 1,000 lbs/hr, the limit on emissions of particulate matter from the unit can be determined (in lbs/hr) by taking the process weight rate for materials introduced into the unit (in tons/hr), raising the process weight rate value to the 0.62 power, and multiplying by 3.59 (maximum = $3.59 \times \text{process weight rate}^{0.62}$).</p> <p>Compliance Demonstration</p> <p>Compliance will be demonstrated from the following emission calculation basis and monitoring requirements: PT emission in pounds per hour= (monthly processing rate in tons/month)(1 month/hours of operation that month)(emission factor of 0.98 lb PT/ton).</p> <p>See Monitoring Requirements for monitoring rates and visual inspection of controls. [401 KAR 59:010 Section 3(2)] Statistical basis: Three-hour average.</p>
L-2	Visible Emissions	Each unit shall have Visible Emissions < 20 % opacity. [401 KAR 59:010 Section 3(1)] Statistical basis: Six-minute average.

Narrative Requirements:

Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: New process operations is applicable to each affected facility associated with a process operation commenced after July 2, 1975 and limits particulate emissions. [401 KAR 59:010]
T-2	Applicable Regulations: Potentially hazardous matter or toxic substances. [401 KAR 63:020 Section 3]

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Narrative Requirements:

Compliance Demonstration:

Condition No.	Condition
T-3	<p>Compliance Demonstration:</p> <p>For HAPs :</p> <p>Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration , in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and / or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020 Section 3]. [401 KAR 63:020 Section 3]</p>

Recordkeeping:

Condition No.	Condition
T-4	<p>Recordkeeping: The permittee shall maintain records of the following: 1) monthly hours of operation and material processing rate; 2) the weekly log of qualitative visual observation of opacity of emissions and the opacity determined by Reference Method 9, if any were taken, and repairs that were made due to any opacity reading which exceeded the standard. [401 KAR 52:040 Section 10]</p>

Monitoring:

Condition No.	Condition
T-5	<p>Monitoring: The permittee shall monitor the amount of material processed on a monthly basis. [401 KAR 52:040 Section 10]</p>
T-6	<p>Monitoring: The permittee shall monitor the hours of operation of the unit on a monthly basis. [401 KAR 52:040 Section 10]</p>
T-7	<p>Monitoring: The permittee shall perform a qualitative visible observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observation. If visible emission from a stack are seen, then the opacity shall be determined by EPA Reference Method 9 and an inspection shall be initiated for any necessary repairs. [401 KAR 52:040 Section 10]</p>

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GACT1 (Fugitives) (Emission Units : 01 - 24 & 26,28):

Narrative Requirements:

Visible Emissions:

Condition No.	Condition
T-1	Visible Emissions: All operations and control equipment contained in the described item or group shall be observed daily during daylight hours to determine whether conditions appear to normal or abnormal. Normal or abnormal determinations for visible emissions monitored by visual inspections/determinations daily shall be made. If the operations, controls and/or emissions appear to be abnormal , the permittee must then comply with the deviation reporting described in Section D of this permit. This requirement is applicable during the following months All Year. Statistical basis: Instantaneous determination. [401 KAR 52:040 Section 10]

Applicable Regulations:

Condition No.	Condition
T-2	Applicable Regulations: Fugitive emissions is applicable to each affected facility which emits or may emit fugitive emissions and is not elsewhere subject to an opacity standard within administrative regulations of the Division for Air Quality. [401 KAR 63:010 Section 1]

Condition No.	Condition
T-3	No person shall cause or permit the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate. [401 KAR 63:010 Section 3(2)]
T-4	No person shall cause, suffer, or allow any material to be handled, processed, transported, or stored; a building or its appurtenances to be constructed, altered, repaired, or demolished, or a road to be used without taking reasonable precaution to prevent particulate matter from becoming airborne. [401 KAR 63:010 Section 3(1)]
T-5	Such reasonable precautions shall include, when applicable, but not be limited to the following: use, where possible, of water or chemicals for the control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the cleaning of land. [401 KAR 63:010 Section 3(1)(a)]
T-6	Such reasonable precautions shall include, when applicable, but not be limited to the following: application and maintenance of asphalt, oil, water, or suitable chemicals on roads, material stockpiles, and other surfaces which can create airborne dusts. [401 KAR 63:010 Section 3(1)(b)]

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Narrative Requirements:

Condition No.	Condition
T-7	Such reasonable precautions shall include, when applicable, but not be limited to the following: installation and use of hoods, fans, or fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling. Adequate containment methods shall be employed during sandblasting or other similar operations. [401 KAR 63:010 Section 3(1)(c)]
T-8	Such reasonable precautions shall include, when applicable, but not be limited to the following: covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne. [401 KAR 63:010 Section 3(1)(d)]
T-9	Such reasonable precautions shall include, when applicable, but not be limited to the following: the maintenance of paved roadways in a clean condition. [401 KAR 63:010 Section 3(1)(e)]
T-10	Such reasonable precautions shall include, when applicable, but not be limited to the following: the prompt removal of earth or other material from a paved street which earth or other material has been transported thereto by trucking or earth moving equipment or erosion by water. [401 KAR 63:010 Section 3(1)(f)]
T-11	The provisions of this administrative regulation shall not apply to agricultural practices, such as tilling of land or application of fertilizers, which take place on a farm. [401 KAR 63:010 Section 3(4)]
T-12	The provisions of Section 3 (1) and (2) of this administrative regulation shall not be applicable to temporary blasting or construction operations. [401 KAR 63:010 Section 4(3)]
T-13	No one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway. [401 KAR 63:010 Section 4(4)]